

LOCATION



SWG-2007-01956 (Marina)
Marquette Galveston Investments
Sheet 1 of 10

APPLICANT: MARQUETTE GALVESTON INVESTMENTS

PROJECT NAME: THE MARINA AT WEST BEACH

COUNTY: GALVESTON COUNTY, TEXAS

DATE: 2/11/2008

REV. DATE: 10/24/08

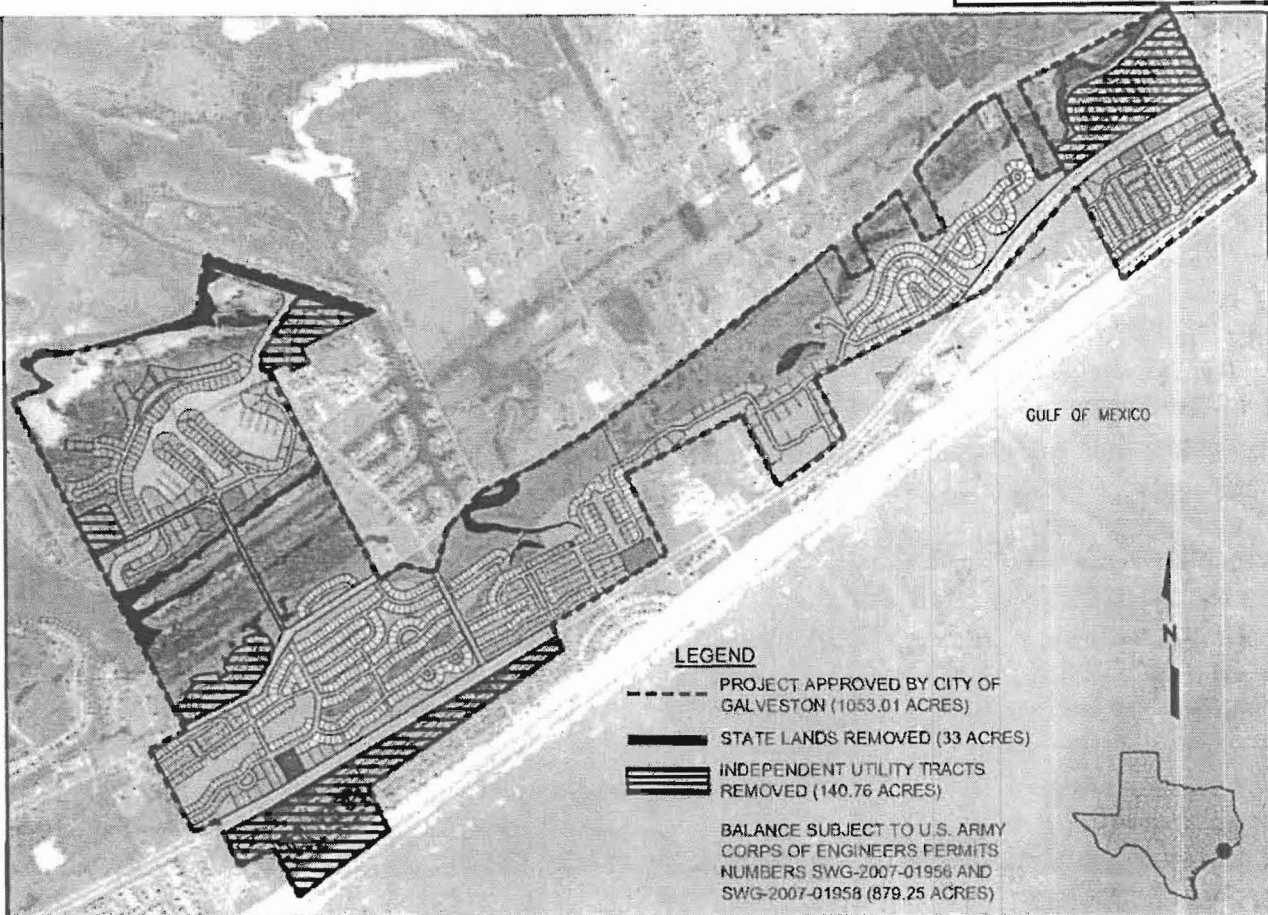
DATUM: N/A

PERMITTING
AGENT:

Horizon
Environmental Services, Inc.
1507 S. IH-35; AUSTIN, TEXAS 78741
Ph: 512-328-2430

SWG-2007-01956

SHEET 1 of 10



Overall Project (Approved by City of Galveston)

LAND USE	UNITS	ACRES
Single Family Lots		
45' Lots	270	31.81
55' Lots	291	43.14
65' Lots	602	116.98
80' Lots	176	45.33
Estate Lots	34	26.77
Attached SF Units	1,148	64.30
Mid-Rise Condos	829	9.69
Tall Building	550	30.41
Beachside 2-Story Condos (Casitas)	48	1.65

LAND USE	UNITS	ACRES
Commercial		5.90
Common Area/Parks		197.13
Preserve Area		360.75
Internal Right-of-Way		119.15
TOTAL	*3,948	1,053.01
Total Maximum Tall Building Hotel Units	800	

SWG-2007-01956 (Marina)

Marquette Galveston Investments
Sheet 2 of 10

APPLICANT: MARQUETTE GALVESTON INVESTMENTS

PROJECT NAME: THE MARINA AT WEST BEACH

COUNTY: GALVESTON COUNTY, TEXAS

PERMITTING
AGENT:

Horizon
Environmental Services, Inc.
1507 S. IH-35, AUSTIN, TEXAS 78741
Ph: 512-328-2430

DATE: 2/11/2008

REV. DATE: 10/24/08

DATUM: N/A

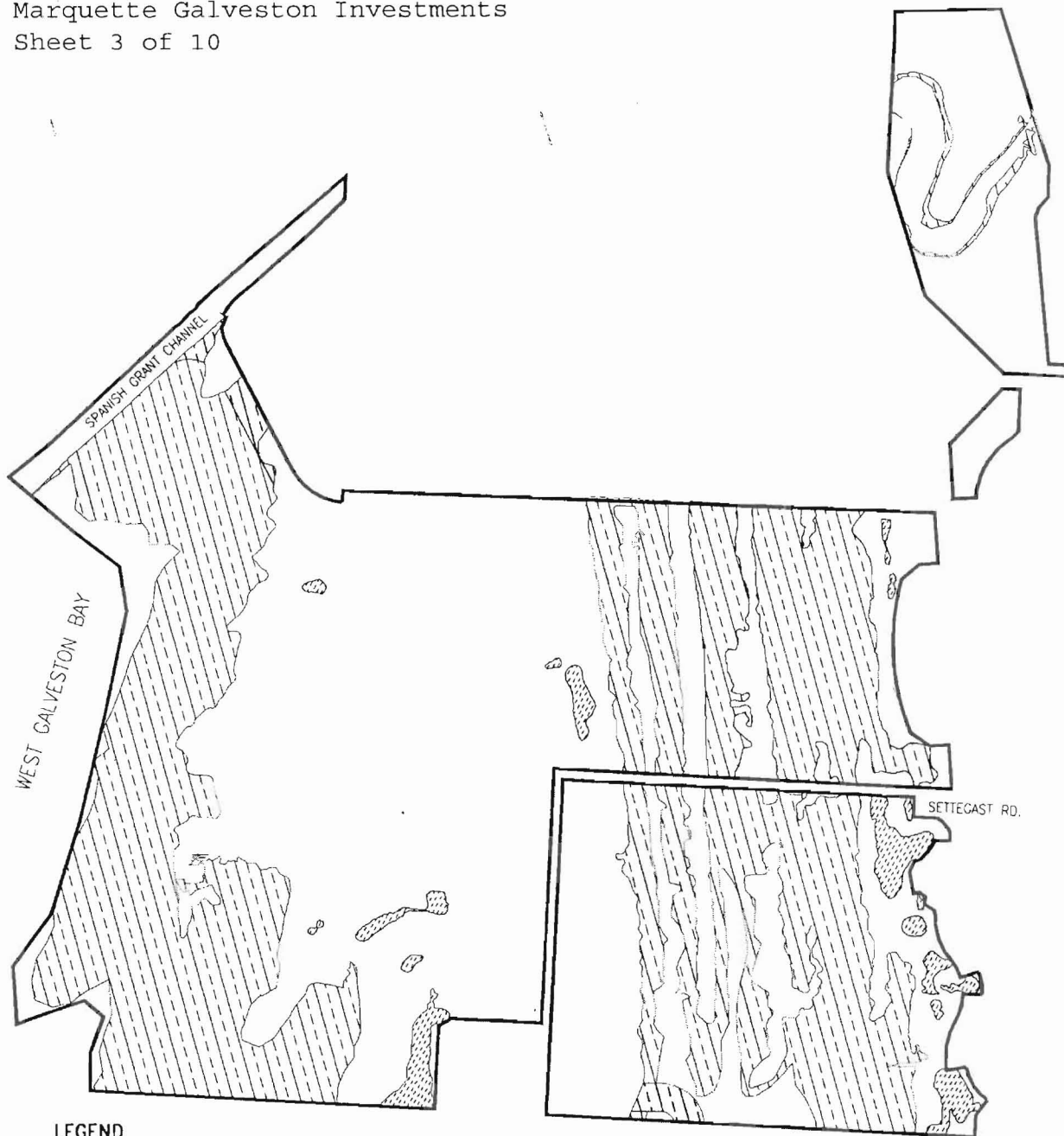
SWG-2007-01956

SHEET 2 of 10

SWG-2007-01956 (Marina)

Marquette Galveston Investments

Sheet 3 of 10

**LEGEND**

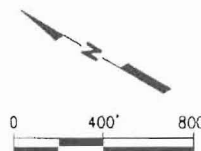
PALUSTRINE WETLAND
= 7.55 AC



ESTUARINE WETLAND
= 141.72 AC



PROJECT BOUNDARY
= 332.18 AC



APPLICANT: MARQUETTE GALVESTON INVESTMENTS

PROJECT NAME: THE MARINA AT WEST BEACH

COUNTY: GALVESTON COUNTY, TEXAS

DATE: 2/11/2008

REV. DATE: 10/24/08

DATUM: N/A

PERMITTING
AGENT:
Horizon

Environmental Services, Inc.
1507 S. IH-35, AUSTIN, TEXAS 78741
Ph: 512-328-2430

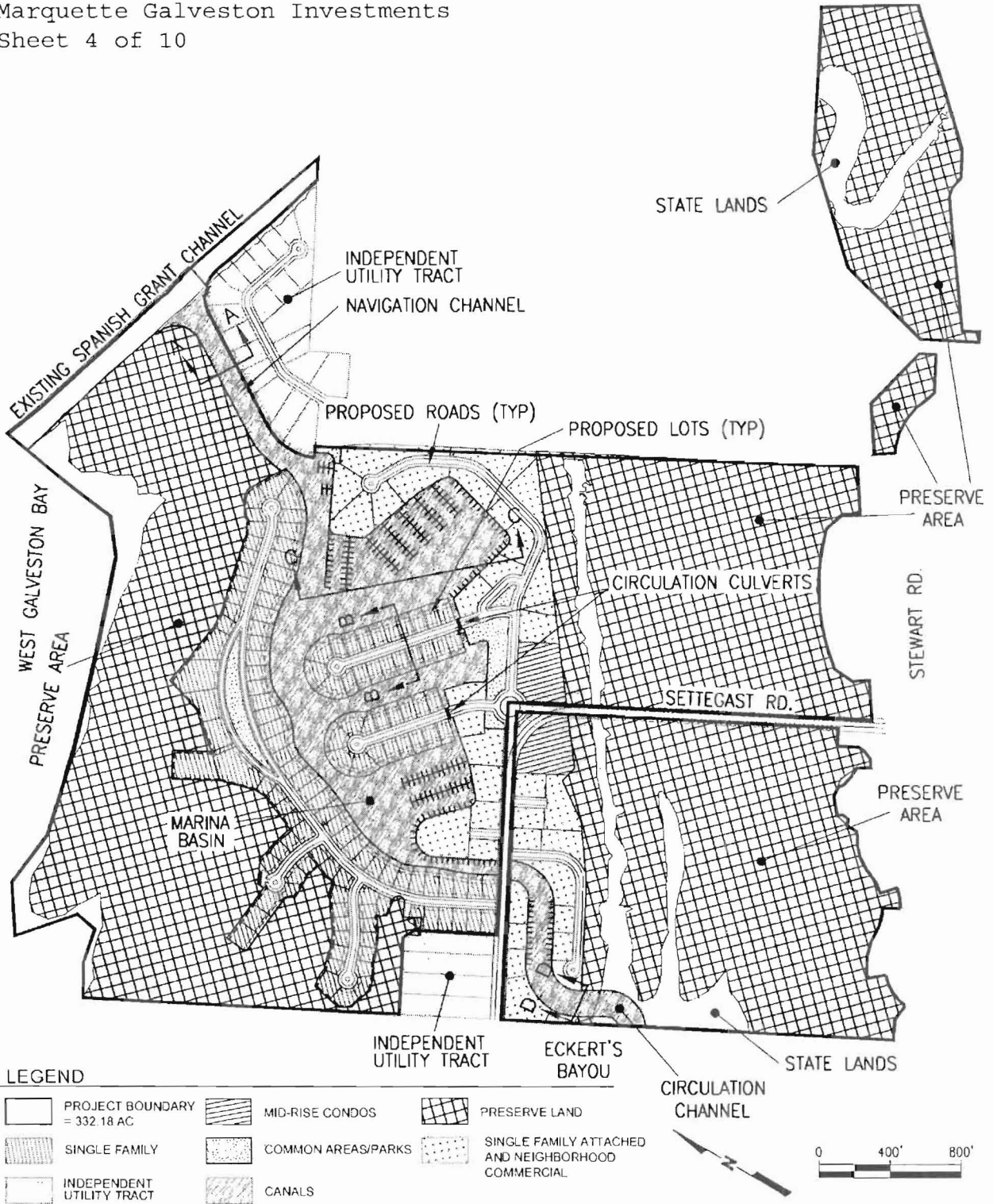
SWG-2007-01956

SHEET 3 of 10

SWG-2007-01956 (Marina)

Marquette Galveston Investments

Sheet 4 of 10



LEGEND

- | | | |
|------------------------------|--------------------|--|
| PROJECT BOUNDARY = 332.18 AC | MID-RISE CONDOS | PRESERVE LAND |
| SINGLE FAMILY | COMMON AREAS/PARKS | SINGLE FAMILY ATTACHED AND NEIGHBORHOOD COMMERCIAL |
| INDEPENDENT UTILITY TRACT | CANALS | |

APPLICANT: MARQUETTE GALVESTON INVESTMENTS

PROJECT NAME: THE MARINA AT WEST BEACH

COUNTY: GALVESTON COUNTY, TEXAS

PERMITTING AGENT:

Horizon
Environmental Services, Inc.
1507 S. IH-35; AUSTIN, TEXAS 78741
Ph: 512-328-2430

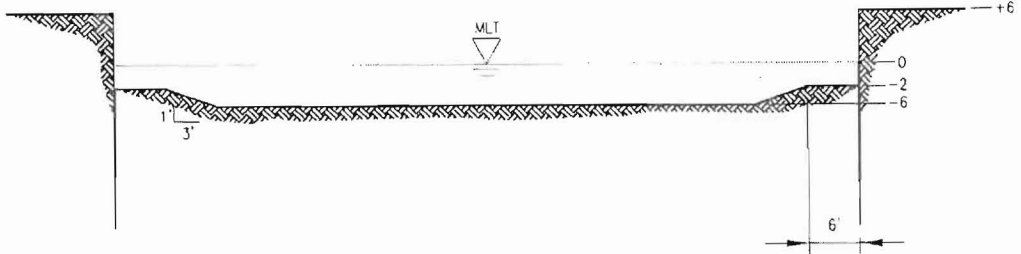
DATE: 2/11/2008

REV. DATE: 10/24/08

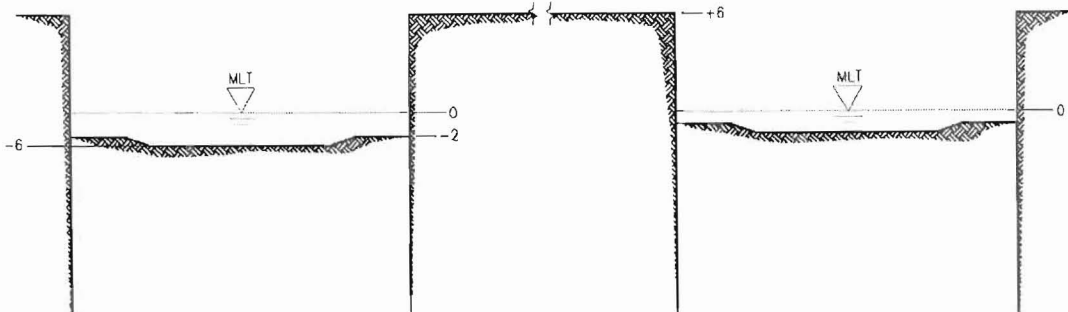
DATUM: N/A

SWG-2007-01956

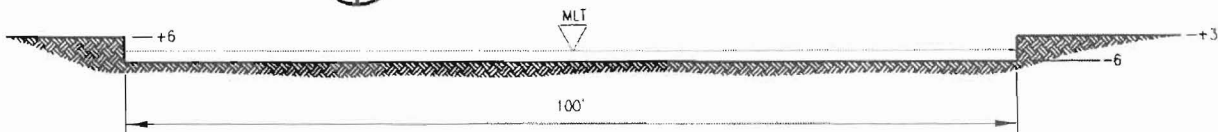
SHEET 4 of 10



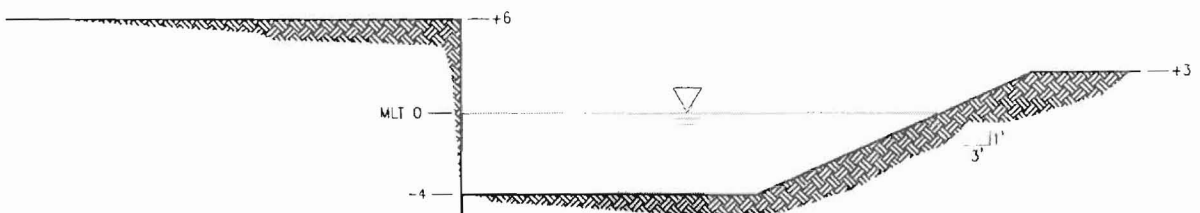
A TYPICAL MARINA SECTION A-A
SCALE: N.T.S.



B TYPICAL MARINA SECTION B-B
SCALE: N.T.S.



C TYPICAL MARINA SECTION C-C
SCALE: N.T.S.



D TYPICAL CIRCULATION CHANNEL SECTION D-D
SCALE: N.T.S.

NOTE:

WATER CIRCULATION CHANNEL
(NAVIGABLE FOR SMALL BOATS)

SWG-2007-01956 (Marina)
Marquette Galveston Investments
Sheet 5 of 10

APPLICANT: MARQUETTE GALVESTON INVESTMENTS

PROJECT NAME: THE MARINA AT WEST BEACH

COUNTY: GALVESTON COUNTY, TEXAS

PERMITTING
AGENT:

Horizon

Environmental Services, Inc.
1507 S. IH-35, AUSTIN, TEXAS 78741
Ph: 512-328-2430

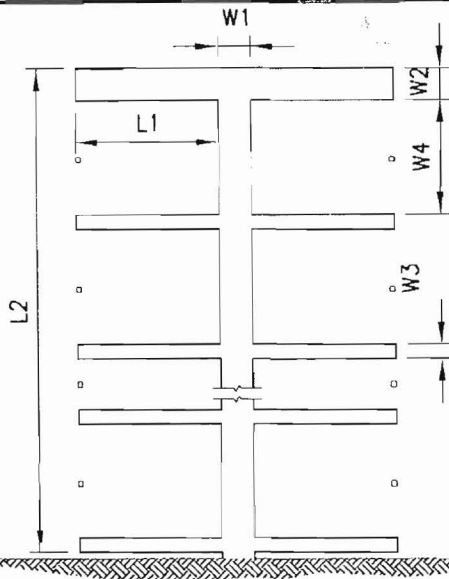
DATE: 2/11/2008

REV. DATE: 10/24/08

DATUM: N/A

SWG-2007-01956

SHEET 5 of 10

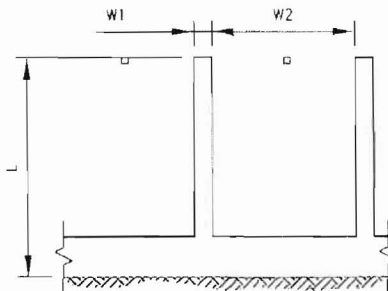
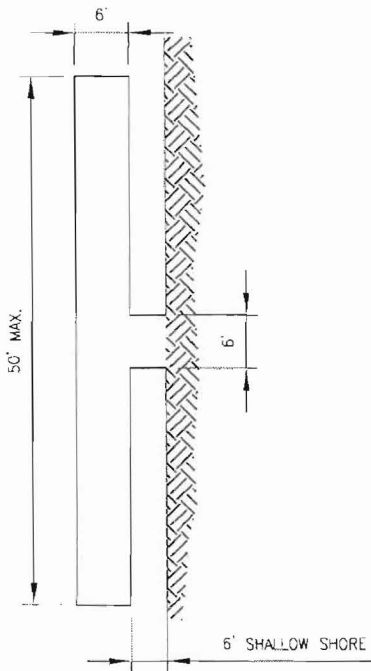


SYMBOL	COMPONENT	TYPICAL FT.
W1	MAIN STEM	10' MAX.
W2	END FINGER	10' MAX.
W3	FINGER	4' MAX.
W4	TWIN BERTH	32' MAX.
L1	LENGTH SLIP	40' MAX.
L2	LENGTH DOCK	175' MAX.

1
16 16

PLAN - TYPICAL COMMERCIAL AREA

SCALE: N.T.S.



3
16 16

PLAN - INDIVIDUAL PERPENDICULAR BERTH

SCALE: N.T.S.

SYMBOL	COMPONENT	TYPICAL FT.
W1	FINGER PIER	4' MAX.
W2	SLIP WIDTH	30' MAX.
L	LENGTH	40' MAX.

2
16 16

PLAN - INDIVIDUAL PARALLEL BERTH

SCALE: N.T.S.

SWG-2007-01956 (Marina)
Marquette Galveston Investments
Sheet 6 of 10

APPLICANT: MARQUETTE GALVESTON INVESTMENTS

PROJECT NAME: THE MARINA AT WEST BEACH

COUNTY: GALVESTON COUNTY, TEXAS

PERMITTING
AGENT:

Horizon
Environmental Services, Inc.
1507 S. IH-35, AUSTIN, TEXAS 78741
Ph: 512-328-2430

DATE: 2/11/2008

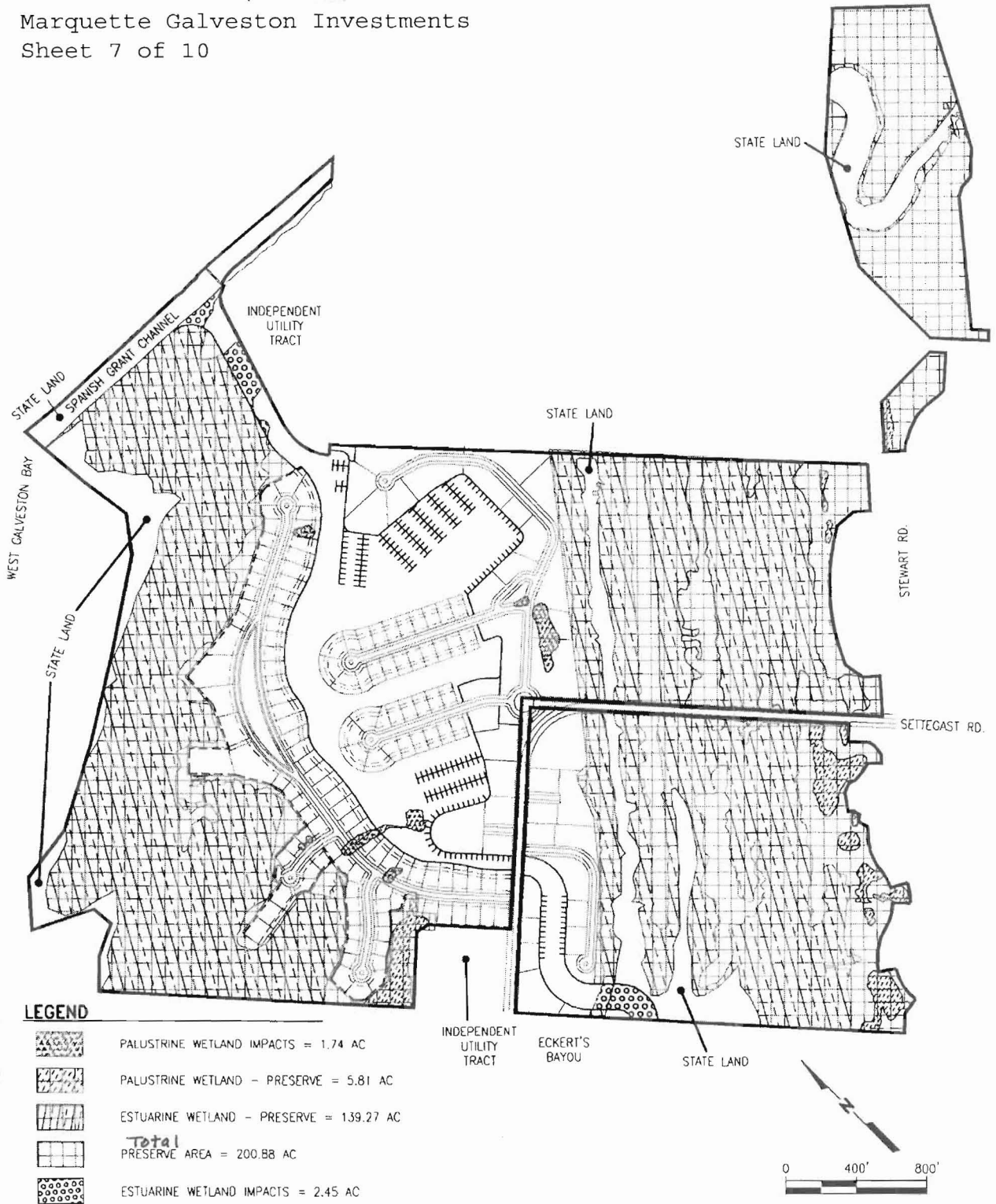
REV. DATE: 10/24/08

DATUM: N/A

SWG-2007-01956

SHEET 6 of 10

SWG-2007-01956 (Marina)
 Marquette Galveston Investments
 Sheet 7 of 10



APPLICANT: MARQUETTE GALVESTON INVESTMENTS

PROJECT NAME: THE MARINA AT WEST BEACH

COUNTY: GALVESTON COUNTY, TEXAS

PERMITTING
 AGENT:

Horizon
 Environmental Services, Inc.
 1507 S. IH-35; AUSTIN, TEXAS 78741
 Ph. 512-328-2430

DATE: 2/11/2008

REV. DATE: 10/24/08

DATUM: N/A

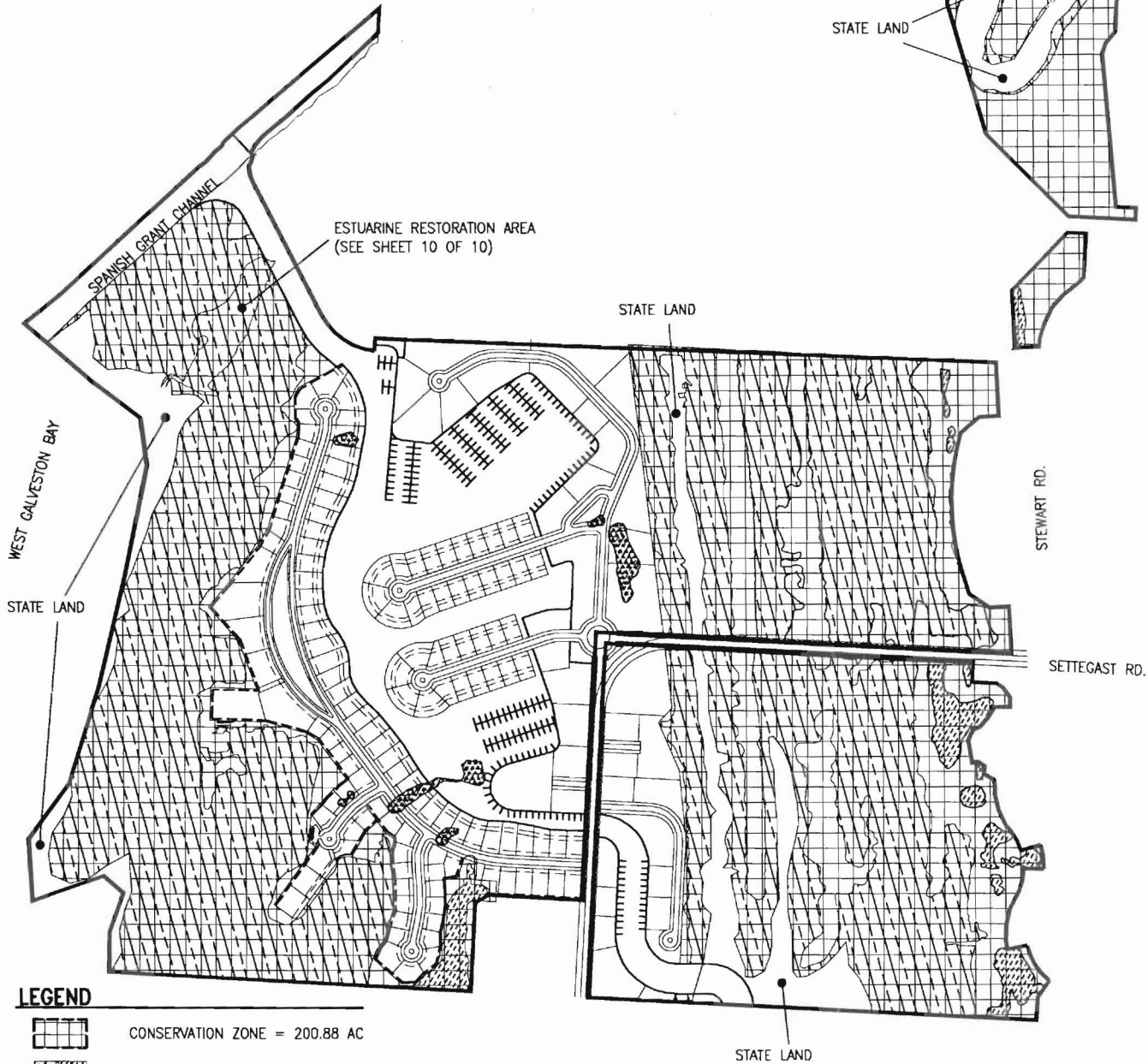
SWG-2007-01956

SHEET 7 of 10

SWG-2007-01956 (Marina)

Marquette Galveston Investments

Sheet 8 of 10



LEGEND



CONSERVATION ZONE = 200.88 AC



PALUSTRINE WETLAND (PRESERVED) = 5.81 AC



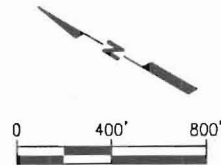
ESTUARINE WETLAND (PRESERVED) = 139.27 AC



UPLAND (PRESERVED) = 55.80 AC



PALUSTRINE WETLAND IMPACTED = 1.74 AC



APPLICANT: MARQUETTE GALVESTON INVESTMENTS

PROJECT NAME: THE MARINA AT WEST BEACH

COUNTY: GALVESTON COUNTY, TEXAS

PERMITTING
AGENT:

Horizon

Environmental Services, Inc.
1507 S. IH-35; AUSTIN, TEXAS 78741
Ph: 512-328-2430

DATE: 2/11/2008

REV. DATE: 12/31/08

DATUM: N/A

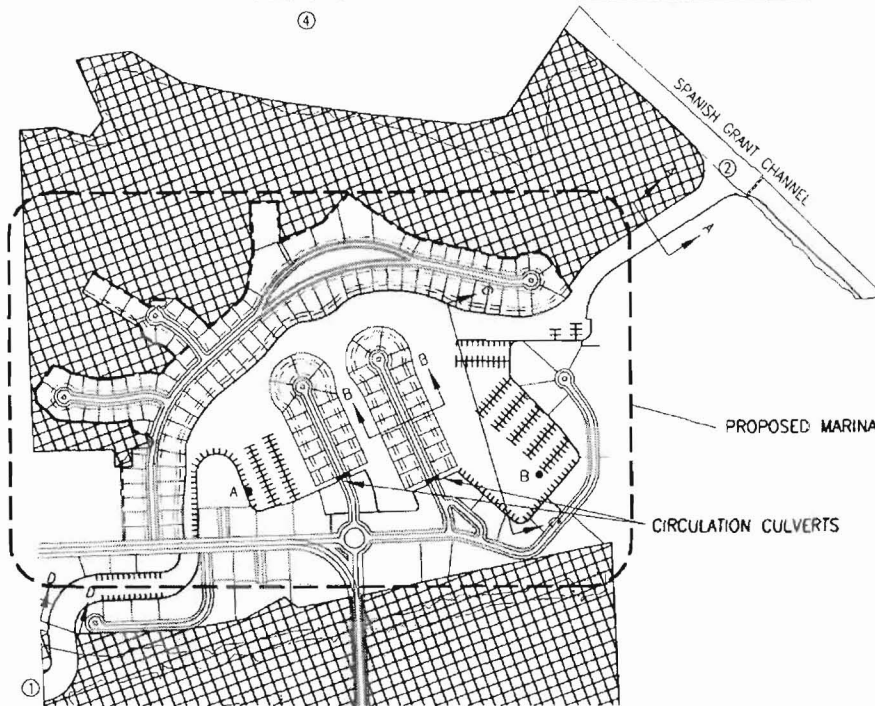
SWG-2007-01956

SHEET 8 of 10

WATER QUALITY MONITORING PLAN

GALVESTON BAY

④



NOTES:

THE APPLICANT WILL IMPLEMENT A WATER QUALITY PLAN FOR THE MARINA AREA WITH THE FOLLOWING COMPONENTS:

1. D.O. MONITORING PLAN AND CONTINGENCY RESPONSE
2. EXCAVATION PLAN
3. DIVERSION OF RUNOFF
4. NO WASTEWATER DISCHARGE
5. NO FISH CLEANING
6. DREDGE TO MINIMUM DEPTH FOR PROJECTED FLEET
7. CONTINGENCY RESPONSE

EACH OF THESE ARE DISCUSSED BELOW

1. D.O. MONITORING PLAN: PERMITEE WILL MONITOR D.O. TEMPERATURE AND SALINITY WITHIN THE MARINA BASIN AND ADJACENT AREAS AT THE LOCATIONS SHOWN, DURING THE WARM MONTHS OF JUNE - SEPT. MONITORING WILL BE DONE TWICE DAILY, 0.5 HOURS AFTER SUNRISE AND 0.5 HOURS BEFORE SUNSET. STATIONS 1, 2, 4, AND 5 SHALL COMMENCE OPERATIONS SIX MONTHS PRIOR TO INITIATION OF EXCAVATION FOR THE MARINA AND SHALL CONTINUE FOR THREE YEARS AFTER EXCAVATION IS COMPLETE. STATION 3, (WHICH IS TO BE LOCATED WITHIN THE YET TO BE DREDGED BASIN) SHALL BE INSTALLED WHEN THE MARINA BASIN IS APPROXIMATELY 90% DONE AND SHALL BE MAINTAINED FOR THREE YEARS AFTER COMPLETION ON THE BASIN.
2. EXCAVATION PLAN: THE MARINA BASIN SHALL BE MECHANICALLY EXCAVATED WITH THE MATERIAL BEING PLACED ON ADJACENT UPLANDS WHERE IT WILL BE USED AS FILL. BASIN EXCAVATION SHALL BE COMPLETED BEFORE THE ACCESS AND CIRCULATION CHANNELS ARE BUILT. ONCE THE BASIN IS COMPLETE, THE ACCESS AND CIRCULATION CHANNELS SHALL BE MECHANICALLY EXCAVATED WITH ALL MATERIAL BEING PLACED ON ADJACENT UPLANDS AND USED FOR FILL. PERMITEE SHALL PROVIDE MONITORING RESULTS TO THE USAGE WITHIN 15 WORKING DAYS. IF THE D.O. DROPS BELOW 4.0 PPM AT EITHER STATION 1, 2, OR 3 (AND THE REFERENCE STATIONS 4 AND 5 REMAIN ABOVE 4.0), THEN AERATION SHALL BE REQUIRED AS DESCRIBED BELOW. AERATION SHALL BE DONE AT TWO LOCATIONS INDICATED: A AND B
3. DIVERSION OF RUNOFF: ALL RUNOFF FROM ADJACENT DEVELOPED AREAS SHALL BE DIVERTED AWAY FROM THE MARINA BASIN
4. NO WASTEWATER DISCHARGE: NO TREATED WASTEWATER FROM AN ENDPOINT SOURCE SHALL BE DISCHARGED INTO THE BASIN OR ACCESS CHANNELS. ALL WASTEWATER SHALL BE REMOVED FROM THE MARINA AREA AND DISPOSED OF VIA A TCEQ APPROVED WWTP.
5. NO FISH CLEANING: THERE SHALL BE NO FISH CLEANING RESIDUE DUMPED INTO THE MARINA FROM ANY SOURCE, (I.E. CLEANING STANDS, VESSELS, PRIVATE DOCKS, ETC.)
6. MINIMUM DEPTH FOR PROJECTED VESSELS: THE BASIN AND APPROACH CHANNEL SHALL BE EXCAVATED TO THE MINIMUM DEPTH FOR THE PROJECTED FLEET, WHICH IS ANTICIPATED TO BE -6' MTL ONE FOOT OF ADVANCE MAINTENANCE DREDGING SHALL BE ALLOWED IN THE ACCESS CHANNEL.
7. MECHANICAL AERATION SHALL BE DONE AT APPROXIMATE LOCATIONS A AND B. AIR RELEASE SHALL BE VIA A DIFFUSER LOCATED WITHIN 1.0 FT. OF BOTTOM. SPECIFIC DESIGN SHALL BE COORDINATED WITH THE AGENCIES.

SWG-2007-01956 (Marina)

Marquette Galveston Investments

Sheet 9 of 10

APPLICANT: MARQUETTE GALVESTON INVESTMENTS

PROJECT NAME: THE MARINA AT WEST BEACH

COUNTY: GALVESTON COUNTY, TEXAS

PERMITTING
AGENT:

Horizon
Environmental Services, Inc.
1507 S. IH-35; AUSTIN, TEXAS 78741
Ph. 512-328-2430

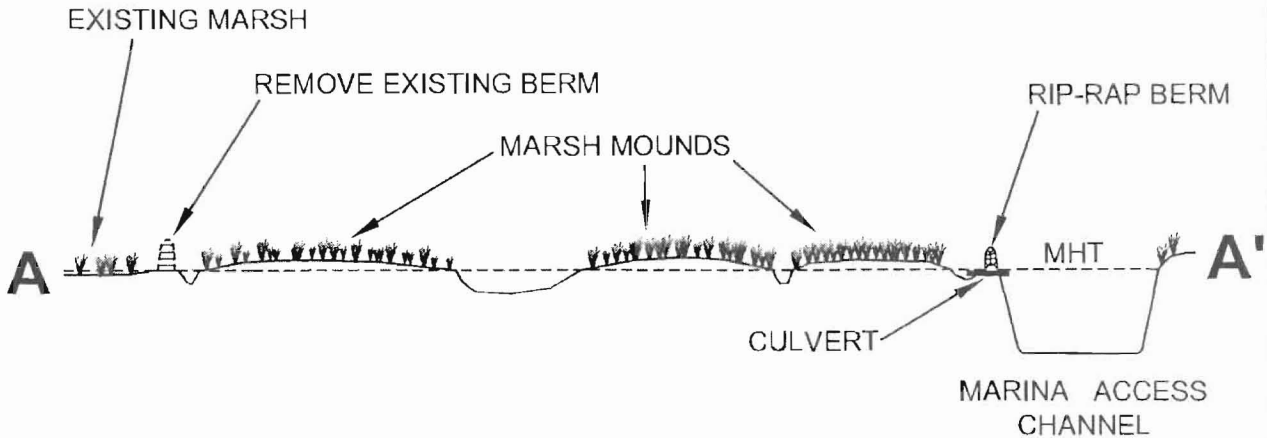
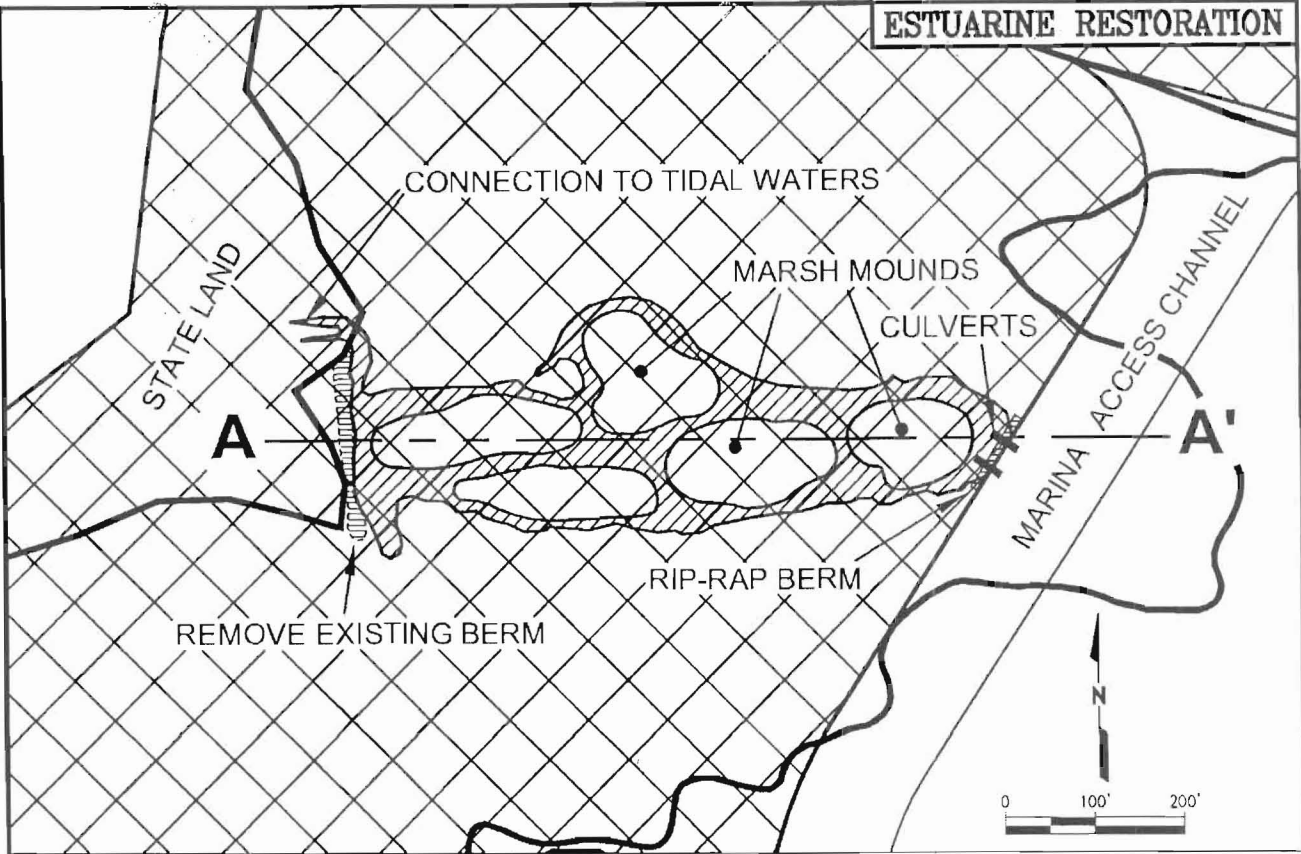
DATE: 2/11/2008

REV. DATE: 10/24/08

DATUM: N/A

SWG-2007-01956

SHEET 9 of 10



SWG-2007-01956 (Marina)

Marquette Galveston Investments

Sheet 10 of 10

CROSS-SECTION A-A'

APPLICANT: MARQUETTE GALVESTON INVESTMENTS

PROJECT NAME: THE MARINA AT WEST BEACH

COUNTY: GALVESTON COUNTY, TEXAS

PERMITTING
AGENT:

Horizon

Environmental Services, Inc.
1507 S. IH-35; AUSTIN, TEXAS 78741
Ph: 512-328-2430

DATE: 10/24/2008

REV. DATE: 10/24/08

DATUM: N/A

SWG-2007-01956

SHEET 10 of 10